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File 345:Inpadoc/Fam.& Legal Stat 1968-2001/UD=200142
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S3	1	AN=DE 8811379
S4	1	PN=EP 1091468
S5	1	PN=EP 849859
S6	1	PN=DE 3408986
S7	1	PN=DE 69408797

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2/9/1

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
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15871180

Basic Patent (No,Kind,Date): IT 8753637 UO 19870909 <No. of Patents: 010>

PATENT FAMILY:

GERMANY (DE)

Patent (No,Kind,Date): DE 8811379 U1 19881222

ROTOR FUER EINEN WECHSELSTROMGENERATOR, INSBESONDERE FUER
MOTORFAHRZEUGE (German)

Patent Assignee: FIAT SPA (IT)

Priority (No,Kind,Date): IT 87U53637 U 19870909

Applic (No,Kind,Date): DE 8811379 U 19880908

Filing Details: (Date of Previous Publication) 19881222

IPC: * H02K-019/16; H02K-001/32; H02K-009/04

Language of Document: German

SPAIN (ES)

Patent (No,Kind,Date): ES 1008887 UA 19890616

UN ROTOR DE ALTERNADOR. (Spanish)

Patent Assignee: FIAT SPA (IT)

Author (Inventor): ANNOVAZZI LORELLA (IT)

Priority (No,Kind,Date): IT 87U53637 U 19870909

Applic (No,Kind,Date): ES 8802697 U 19880908

IPC: * H02K-009/00

Language of Document: Spanish

Patent (No,Kind,Date): ES 1008887 YA 19891216

UN ROTOR DE ALTERNADOR. (Spanish)

Patent Assignee: FIAT SPA (IT)

Author (Inventor): ANNOVAZZI LORELLA (IT)

Priority (No,Kind,Date): IT 87U53637 U 19870909

Applic (No,Kind,Date): ES 8802697 U 19880908

IPC: * H02K-009/0
Derwent WPI Acc No: * G 89-194818
Language of Document: Spanish

SPAIN (ES)

Legal Status (No, Type, Date, Code, Text):

ES 1008887	U	19870909	ES AA	PRIORITY OF THE PATENT (APPLICATION FOR A UTILITY MODEL) (PRIORITAET DES PATENTES (GEBRAUCHSMUSTERANMELDUNG))
			IT 87U53637 U	19870909
ES 1008887	U	19880908	ES AE	APPLIED (UTILITY MODEL APPLICATION) (ANGEMELDET (GEBRAUCHSMUSTER))
			ES 8802697 U	19880908
ES 8802697	UN	19890616	ES AGA	PUBLISHED AS PUBLISHED UTILITY MODEL APPLICATION (PUBLICADO COMO PUBLICACION DE SOLICITUD DE MODELO DE UTILIDAD)
			ES 1008887 UA	19890616
ES 8802697	UN	19891216	ES AGA	PUBLISHED AS GRANTED UTILITY MODELS (PUBLICADO COMO MODELO DE UTILIDAD)
			ES 1008887 YA	19891216
ES 8802697	UN	20000401	ES FD1K	UTILITY MODEL LAPSED (MODELO DE UTILIDAD CADUCIDADES) 20000301

FRANCE (FR)

Patent (No, Kind, Date): FR 2620278 A3 19890310

ROTOR D'ALTERNATEUR AVEC SYSTEME DE REFROIDISSEMENT, EN PARTICULIER
POUR VEHICULES A MOTEUR (French)

Patent Assignee: FIAT SPA (IT)

Author (Inventor): ANNOVAZZI LORELLA

Priority (No, Kind, Date): IT 8753637 A 19870909

Applic (No, Kind, Date): FR 8811726 A 19880908

IPC: * H02K-001/32; H02K-019/26

Derwent WPI Acc No: ; G 89-194818

Language of Document: French

Patent (No, Kind, Date): FR 2620278 B3 19890818

ROTOR D'ALTERNATEUR AVEC SYSTEME DE REFROIDISSEMENT, EN PARTICULIER
POUR VEHICULES A MOTEUR (French)

Patent Assignee: FIAT SPA (IT)

Author (Inventor): ANNOVAZZI LORELLA

Priority (No, Kind, Date): IT 8753637 A 19870909

Applic (No, Kind, Date): FR 8811726 A 19880908

IPC: * H02K-001/32; H02K-019/26

Language of Document: French

FRANCE (FR)

Legal Status (No, Type, Date, Code, Text):

FR 8811726	AN	19890310	FR AGA	FIRST PUBLICATION OF UTILITY MODEL (DELIVRANCE (PREM. PUB. DE CERT. D'UTILITE))
			FR 2620278 A3	19890310
FR 8811726	AN	19890818	FR AGA	SECOND PUBLICATION OF A UTILITY MODEL (DELIVRANCE (DEUX. PUB. CERT. D'UTILITE))
			FR 2620278 B3	19890818
FR 8811726	AN	19910726	FR ST	LAPSED (CONSTATATION DE DECHEANCES)
FR 2620278	PN	19870909	FR AA	PRIORITY (PATENT) (PRIORITE (BREVET))
			IT 8753637 A	19870909

LA DEMANDE)

FR 8811726 A 19880908

GREAT BRITAIN (GB)

Patent (No,Kind,Date): GB 8820921 A0 19881005
ALTERNATOR ROTOR PARTICULARLY FOR MOTOR VEHICLES (English)
Patent Assignee: FIAT SPA
Priority (No,Kind,Date): IT 8753637 A 19870909
Applic (No,Kind,Date): GB 8820921 A 19880906
IPC: * H02K-019/16
Language of Document: English

Patent (No,Kind,Date): GB 2209882 A1 19890524
AN ALTERNATOR ROTOR HAVING VENTILATION DUCTS (English)
Patent Assignee: FIAT SPA (IT)
Author (Inventor): ANNOVAZZI LORELLA
Priority (No,Kind,Date): IT 87U53637 U 19870909
Applic (No,Kind,Date): GB 8820921 A 19880906
National Class: * H2A AKH KH
IPC: * HC2K-001/32
Language of Document: English

GREAT BRITAIN (GB)

Legal Status (No, Type, Date, Code, Text) :					
GB 2209882	P	19870909	GB AA		PRIORITY (UTILITY MODEL)
			IT 87U53637	U	19870909
GB 2209882	P	19880906	GB AE		APPLICATION DATA (APPL. DATA)
			GB 8820921	A	19880906
GB 2209882	P	19890524	GB A1		APPLICATION PUBLISHED
GB 2209882	P	19920617	GB WAP		APPLICATION WITHDRAWN, TAKEN TO BE WITHDRAWN OR REFUSED ** AFTER PUBLICATION UNDER SECTION 16(1) (APPL. WITHDRAWN, TAKEN TO BE WITHDRAWN OR REFUSED ** AFTER PUB. UNDER SECT. 16(1))

ITALY (IT)

Patent (No,Kind,Date): IT 212393 U 19890704
 ROTORE PER UN ALTERNATORE PARTICO LARMENTE PER AUTOVEICOLI (Italian)
 Patent Assignee: MAGNETI MARELLI SPA (IT)
 Author (Inventor): ANNOVAZZI LORELLA
 Priority (No,Kind,Date): IT 87U53637 U 19870909
 Applic (No,Kind,Date): IT 87U53637 U 19870909
 Derwent WPI Acc No: * G 89-194818
 Language of Document: Italian

Patent (No,Kind,Date): IT 8753637 UO 19870909
 ROTORE PER UN ALTERNATORE PARTICO LARMENTE PER AUTOVEICOLI (Italian)
 Patent Assignee: MAGNETI MARELLI SPA (IT)
 Author (Inventor): ANNOVAZZI LORELLA
 Priority (No,Kind,Date): IT 87U53637 U 19870909
 Applic (No,Kind,Date): IT 87U53637 U 19870909
 Derwent WPI Acc No: * G 89-194818
 Language of Document: Italian

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 4902922 A 19900220
ALTERNATOR ROTOR, PARTICULARLY FOR MOTOR VEHICLES (English)
Patent Assignee: FIAT SPA (IT)
Author (Inventor): ANNOVAZZI LORELLA (IT)
Priority (No,Kind,Date): IT 87U53637 U 19870909
Applic (No,Kind,Date): US 242407 A 19880909
National Class: * 310061000; 310059000; 310263000
IPC: * H02K-001/32
Derwent WPI Acc No: * G 89-194818

Language of Document.. English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 4902922 P 19870909 US AA PRIORITY (UTILITY MODEL)
IT 87U53637 U 19870909
US 4902922 P 19880909 US AE APPLICATION DATA (PATENT)
(APPL. DATA (PATENT))
US 242407 A 19880909
US 4902922 P 19891207 US AS02 ASSIGNMENT OF ASSIGNOR'S
INTEREST
INDUSTRIE MAGNETI MARELLI S.R.L. - VIA
ADRIANO 81, MILANO, ITALY AN ITALIAN LIM I ;
ANNOVAZZI, LORELLA : 19880912
US 4902922 P 19900220 US A PATENT

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Sub account: 033275-189

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\$10.99 Estimated cost File345

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\$11.18 Estimated cost this search

\$98.23 Estimated total session cost 2.568 DialUnits

File 351:Derwent WPI 1963-2001/UD,UM &UP=200162

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*File 351: Price changes as of 1/1/01. Please see HELP RATES 351.

72 Updates in 2001. Please see HELP NEWS 351 for details.

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S1 1 PN=US 4902922

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DIALOG(R)File 351:Derwent WPI

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007929706

WPI Acc No: 1989-194818/198927

Cooled rotor for vehicle alternator - includes shaft with axial hole and
radial channels carrying air through interdigitated rotor plates

Patent Assignee: IND MAGNETI MARELLI SPA (ITMA)

Inventor: ANNOVAZZI L

Number of Countries: 003 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2620278	A	19890310	FR 8811726	A	19880908	198927 B
GB 2209882	A	19890524	GB 8820921	A	19880906	198931
US 4902922	A	19900220	US 88242407	A	19880909	199014

Priority Applications (No Type Date): IT 8753637 A 19870909

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

FR 2620278 A 7

US 4902922 A 3

Abstract (Basic): FR 2620278 A

The rotor includes a shaft (1) from which two pole plates (2) extend radially. Each has a number of pole fingers bent towards the other plate, with the fingers of one plate lying between two of the fingers of the other plate.

An excitation winding (5) is situated between the plates, coaxial with the shaft. An axial ventilation channel (6) is formed in the shaft, linking with radial channels passing out through the pole plates. The radial channels open out into the space between an adjacent pair of poles.

3/3

Abstract (Equivalent): US 4902922 A

A shaft is provided from which two facing pole plates extend radially, each having radial pole fingers whose ends are bent towards the facing pole plate. Each extends between two adjacent fingers of the facing pole plate. At least one excitation winding is situated between the plates coaxial with the shaft. At least one axial ventilation duct is formed in the shaft from which branch radial ducts in alignment with the pole plates.

Radial ventilation passages are provided in each pole plate which are in communication with the radial ducts and which open into recesses defined between pairs of adjacent pole fingers. The radial ducts of the shaft and the ventilation radial passages of the pole plates are axially staggered.

USE - Alternator rotor, particularly for motor vehicles. (3pp)

Derwent Class: X11; X22

International Patent Class (Additional): H02K-001/32; H02K-019/26

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31oct01 12:56:41 User034901 Session D11226.6

Sub account: 033275-189

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\$4.02 1 Type(s) in Format 7

\$4.02 1 Types

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\$0.19 TELNET

\$8.99 Estimated cost this search

\$107.22 Estimated total session cost 2.771 DialUnits

Status: Signed Off. (6 minutes)